

SEQUENCE LISTING

Joyce, Gerald F. Breaker, Ronald R.

<120> ENZYMATIC DNA MOLECULES

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<140> 09/423,035

<141> 2000-01-13

<150> PCT/US98/08677

<151> 1998-04-29

<150> 60/045,228

<151> 1997-04-29

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<170> PatentIn Ver. 2.1

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| 12137 Altificial bequence | |
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| coungagage acoggacees conggacees agreements and green | |
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| C4002 81 | |
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| | 49 |
| | 49 |
| cetttagtta ggctagctac aacgattttt ecetgettgg caacgacae | 49 |
| cctttagtta ggctagctac aacgatttt ccctgcttgg caacgacac <210> 82 | 49 |
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| <210> 84 | |
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| (210) 06 | |
| <210> 86 <211> 51 | |
| <211> 51 <212> DNA | |
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| <400> 88 | |
| catggettaa teateeteaa tagaagaeta eaagtegaat atgteeecee | 50 |
| | |
| | |
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| caacagageg agtateacee eetgteaata gtegtatgaa acattgggee | 30 |
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| Car in the care of | |
| <220> | |
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| The boots person of interstructure sequences. Similarly me | |
| <400> 94 | |
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| gouloudoud gudoodagee doubledge toutotatus tyanootou | |
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| valor victification pedagine | |
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| cetttgagtt cetaaatgee geaeggtaag ettggeacae tttgaetgta | 50 |
|--|----|
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| Cagacgaccc | teettaaag aetaeette aaagaaaeat aaggeaeee | |
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| <210> 104 | | |
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| <212> | | |
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| 44005 | 105 | |
| <400> | | 15 |
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| | | |
| <210> | 106 | |
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| <400> | 106 | |
| | lagau ggaacaa | 17 |
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| <211> | 15 | |
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| | | |
| <400> | 107 | |
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| | | |
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| | Human immunodeficiency virus | |
| \ 213/ | numan immunodeliciency vilus | |
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| | aaaug gagcc | 15 |
| 2221 | | |
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| <210> | 109 | |
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| <210> 110 | |
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| | | | | |
| <210> | 115 | | | |
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| (215) | Authoral bequeines | | | |
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| | | | | |
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| <220> | | |
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<223> Description of Artificial Sequence: DNA enzyme
<220>
<221> misc_feature
<222> (9)
<223> H = T, C or A
<400> 122
                                                                   16
rggctagcha caacga
<210> 123
<211> 79
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: DNA enzyme
<220>
<221> misc feature
<222> (18)
<223> The N at position 18 is adenosine ribonucleotide.
<400> 123
ctaatacgac tcactatngg aagagatggc gacatctctt cagcgatgca cgcttgtttt 60
aatgttgcac ccatgttag
<210> 124
<211> 75
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: primer
<400> 124
gigccaagct taccgagtaa cttcgtccgg ctcggragat gggtcgtctg tccttccatc 60
tctagttact ttttc
                                                                   75
<210> 125
<211> 78
```

| <717> | DNA | |
|----------------|--|----|
| <213> | Artificial Sequence | |
| <220x | | |
| <220> | Description of Artificial Sequence: primer | |
| \223/ | Description of Artificial Sequence: primer | |
| <400> | 125 | |
| gttgc | caago ttacogggaa aaatogttgt agotagoota actaggtogt otgtoottoo | 60 |
| atctct | tagtt acttttc | 78 |
| | | |
| 2010 \$ | 126 | |
| <210> <211> | | |
| <211> | | |
| | Artificial Sequence | |
| \Z13/ | Altificial bequence | |
| <220> | | |
| <223> | Description of Artificial Sequence: primer | |
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| <400> | | |
| ggaag | gacag acgacccatc | 20 |
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| <210> | 127 | |
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| <212> | DNA | |
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| <220> | | |
| <223> | Description of Artificial Sequence: primer | |
| <400> | 107 | |
| | | 22 |
| 909000 | | |
| | | |
| <210> | 128 | |
| <211> | | |
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| <213> | Artificial Sequence | |
| <220> | | |
| | Description of Artificial Sequence: primer | |
| | Taring to the second of the se | |
| <400> | 128 | |
| ggaagg | gacag acgacctagt t | 21 |
| | | |
| .0 | 100 | |
| <210> | 129 | |

| <211> | | |
|--------|---|----|
| <212> | | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Description of Artificial Sequence: primer | |
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| gaaaaa | gtaa ctagagatgg aaggacagac gacc | 34 |
| | | |
| <210> | · | |
| <211> | | |
| <212> | | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Description of Artificial Sequence: DNA enzyme | |
| <400> | 130 | |
| cacggt | toga atggcgttat gcatcacact atttttcatt gaagcaggcc gagccttcca | 60 |
| ccttcc | agcg gtagagaagg | 80 |
| | | |
| <210> | | |
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| <212> | | |
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| <220> | | |
| <223> | Description of Artificial Sequence: DNA enzyme | |
| <400> | 131 | |
| cacqqt | toga atggcatgtt aagttogtoc ottittagca acatogatog gattogtito | 60 |

cccagcggta gagaagg